



## Light Duty Hybrid Electric Commercial water heaters are available in 40, 50, 65 and 80-gallon capacities & are the most efficient water heaters available

### Efficiency

- Up to 4.0 UEF reduces operating cost
- ENERGY STAR® rated
- Title 24 Compliant (JA13 Ready)

### Performance

- Delivers hot water faster than most standard electric water heaters
- Ambient operating range: 37-145° F is widest in class, offering more days of HP operation annually; designed to meet Northern Climate Spec (Tier 4)

### Easy Installation

- Easy access side connections
- Quick access to electrical junction box
- Easily replaces a standard electric water heater

### Integration

- Electronic control for easy temperature adjustment and mode management
- Audible alarm for service alerts
- Integrated EcoNet® WiFi-connected\* technology and free mobile app gives users control over water heater, allowing for customizable temperature, vacation settings, energy savings and system monitoring at home or away
- Demand Response Ready with built-in EcoPort/ CTA-2045 port
- LeakGuard™ and LeakSense™ Ready — Easily add leak detection and prevention with leak sensor and shutoff valve upgrade kit

### Operation Modes

- Energy Saver
- Heat Pump
- High Demand
- Electric
- Vacation/Away: 2-28 days (or placed on hold indefinitely)

### Plus...

- Premium grade anode rod with resistor extends the life of the tank
- 3/4" NPT water inlet and outlet; 3/4" condensate drain connections
- Incoloy stainless steel resistor elements
- Dry-fire protection
- Easy access, top mounted washable air filter
- 2" Non-CFC foam insulation
- Enhanced flow brass drain valve
- Temperature and pressure relief valve installed
- Design certified to NSF/ANSI 372 (Lead Content)

### Warranty

- 3-Year limited tank and parts warranty
- See Commercial Warranty Certificate for complete information

**Efficiency** | These models have been tested according to DOE test procedures, and exceed the minimum energy factor requirements of current ASHRAE Standards (Part of the federally mandated Energy Policy Act (EPact). Also exceeds energy efficiency codes of all states including California Energy Commission (CEC).

**Safety and Construction** | Safety and Construction: These products are design certified by Underwriters Laboratories (UL) as electric storage tank water heaters. All models are North Carolina and Massachusetts Code compliant. **Certified for a 150 PSI Maximum Working Pressure.**



## Ruud Commercial Electric Hybrid

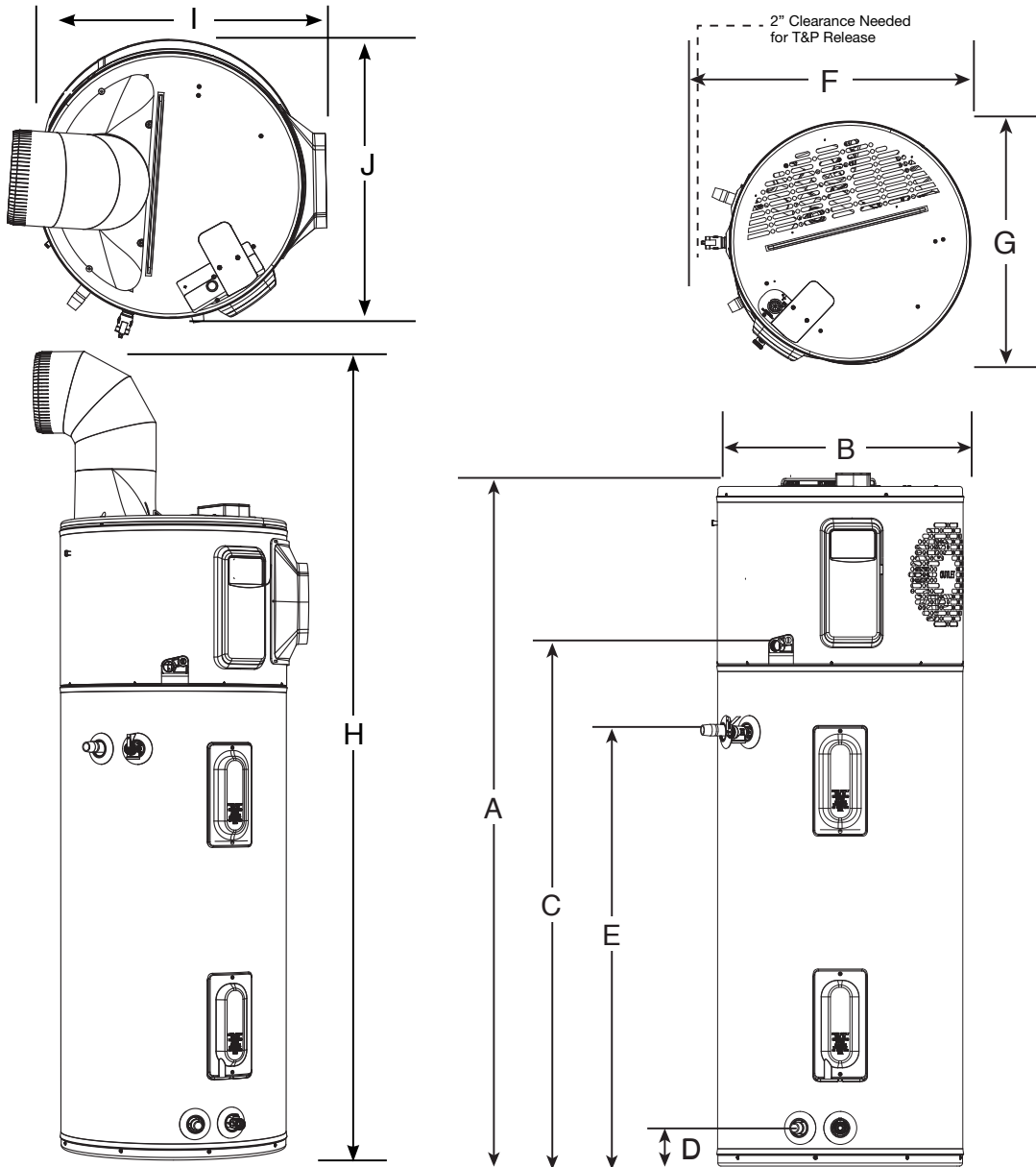
40, 50, 65 & 80-Gallon Capacities  
208-240 Volt / 1 PH  
Electric



## Specifications

DESCRIPTION					ENERGY INFO		FEATURES					SHIPPING WEIGHTS		
NOMINAL GALLON CAPACITY	RATED GALLON CAPACITY	MODEL NUMBER	MODEL VARIANT	ELECTRIC BREAKER SIZE	UNIFORM ENERGY FACTOR (UEF)	EST. YEARLY ENERGY COST	COMPRESSOR BTU/H	FIRST HR. RATING (GALLONS)	RECOVERY IN G.P.H 90° F RISE	ELEMENT WATTAGE	TOTAL UNIT WATTAGE	MAX AMPS	UNIT WT. (LBS.)	APPROX. SHIP WT. (LBS.)
40	36	HPLD40-1RU	701445	30	3.75	\$104	4,200	60	27	4,500	5,000	21	157	174
50	45	HPLD50-1RU	701444	30	3.75	\$104	4,200	67	27	4,500	5,000	21	178	218
65	59	HPLD65-1RU	701446	30	3.85	\$155	4,200	75	27	4,500	5,000	21	225	262
80	72	HPLD80-1RU	701447	30	4.00	\$149	4,200	87	27	4,500	5,000	21	244	281

Estimated energy cost based on a national average electricity cost of \$0.12 /kWh. Uniform Energy Factor and rated gallon capacity based on Department of Energy (DOE) requirements. All units have integrated WiFi control board.

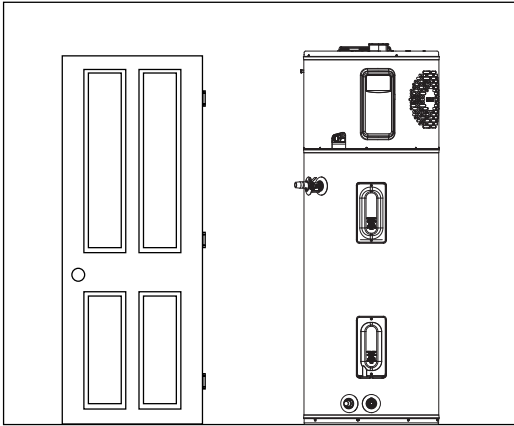


DESCRIPTION		DIMENSIONS (SHOWN IN INCHES)									
NOMINAL GALLON CAPACITY	MODEL NUMBER	A	B	C	D	E	F	G	H	I	J
40	HPLD40-1RU	62-5/16	20-1/4	47	3-5/8	39-5/8	23-3/8	20-1/2	78-7/8	22-3/8	23-1/4
50	HPLD50-1RU	61-3/4	22-1/4	47	3-5/8	39-5/8	25-3/8	22-1/2	78-5/8	24-3/8	25-9/16
65	HPLD65-1RU	64-3/16	24-1/4	49	3-7/8	42-3/8	27-1/2	24-5/8	81-1/8	26-1/2	27-3/8
80	HPLD80-1RU	74-3/16	24-1/4	59	3-7/8	42-3/8	27-1/2	24-5/8	91	26-1/2	27-3/8

## Hybrid Water Heater Installation Guidelines to Provide Optimal Efficiency

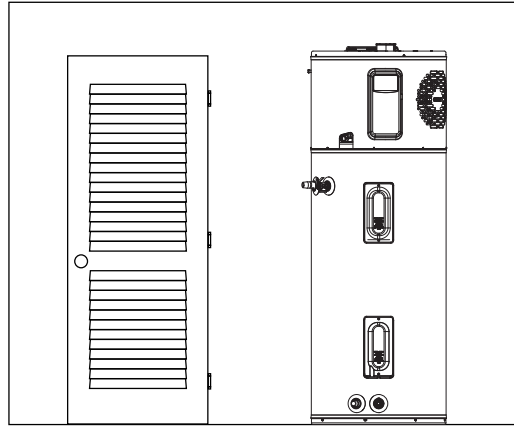
### Heater: Not Ducted

Room size: Larger than 700 ft<sup>3</sup> (e.g. 7' x 10' x 10').  
 Requirements: No additional ventilation needed.



### Heater: Not Ducted

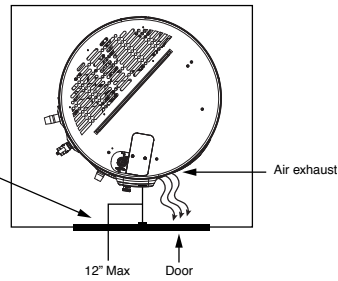
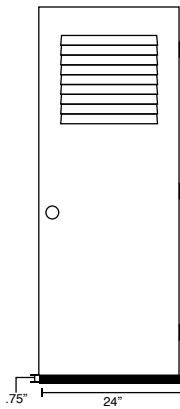
Room size: Smaller than 700 ft<sup>3</sup> (e.g. 7' x 10' x 10').  
 Requirements: Full louvered door OR two louvers top and bottom. See below.



### Heater: Not ducted

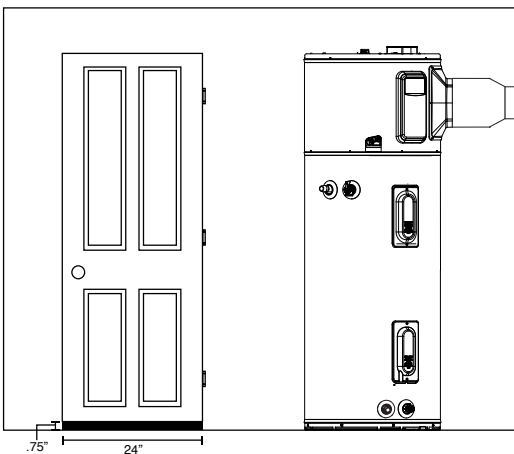
Room: Small Closet

- Requirements: \* Air gap under door equal to 18 in<sup>2</sup> (0.75" clearance).
- \* Louver must be located the same height on door as the air exhaust on heater.
- \* Heater air exhaust must be positioned towards louver within one foot of door.



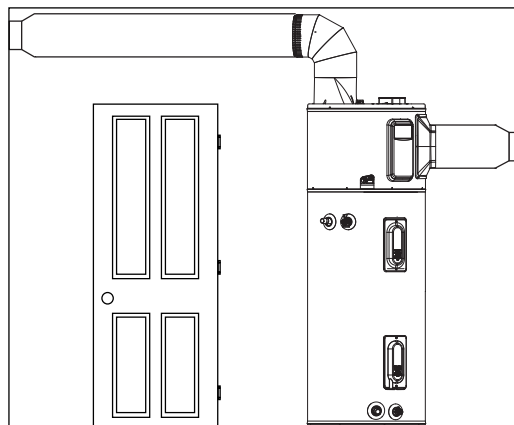
### Heater: Ducted with inlet OR outlet duct

Room size: Any size room  
 Requirements: Air gap under door equal to 18 in<sup>2</sup> (0.75" clearance)



### Heater: Ducted with inlet AND outlet duct

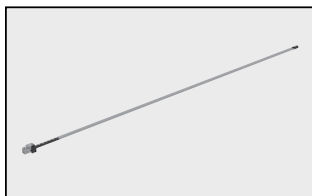
Room size: Any size room  
 Requirements: No additional ventilation needed.





## Hybrid Accessories List

PART NUMBER	DESCRIPTION	USE FOR
AP19134	Leak Sensor	Automatic detection of internal and external leaks
AP20180	Shutoff Valve	Automatic shut off of water supply to unit
SP21105	Inlet Duct Adapter Kit	Allows for ducting to be connected on the top inlet
SP17829	Outlet Duct Adapter Kit	Allows for ducting to be connected to the unit
SP20882	Earthquake Isolation Kit	Installations in seismic regions
SP20883	Vibration Isolation Kit	Installation on non-concrete floors
SP20884	8" Diameter UL Certified Termination Kit	Termination to the outside or to the attic with 8" diameter
SP20885	7" Diameter UL Certified Termination Kit	Termination to the outside or to the attic with 7" diameter
SP20886	6" Diameter UL Certified Termination Kit	Termination to the outside or to the attic with 6" diameter
SP20887	5" Diameter UL Certified Termination Kit	Termination to the outside or to the attic with 5" diameter
SP20888	8" Rheem Approved Damper Kit	Exhaust only to the outside ducting configuration (no inlet duct)
SP20889	25' Flexible 8" Diameter Duct Kit	For up to 25' of ducting
SP20890	Rigid Elbow Duct Kit	Installation in tight places where space needs to be minimized
<b>UPGRADE KIT</b>		
SP21111	Leak Sensor & Shutoff Valve Kit	Add leak detector and shutoff valve to protect from water damage



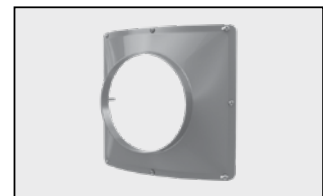
Leak Sensor



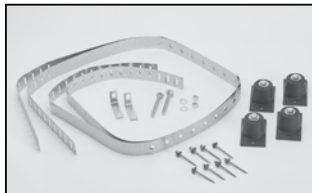
Shutoff Valve



Inlet Duct Adapter Kit



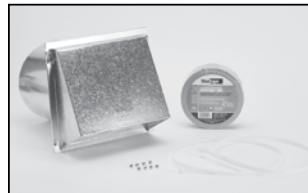
Outlet Duct Adapter Kit



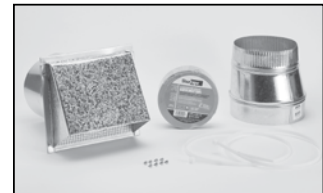
Earthquake Isolation Kit



Vibration Isolation Kit



8" Diameter UL Certified Termination Kit



7" Diameter UL Certified Termination Kit



6" Diameter UL Certified Termination Kit



5" Diameter UL Certified Termination Kit



8" Ruud Approved Damper Kit

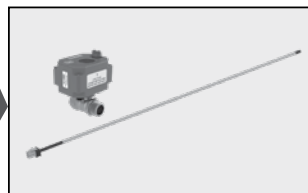


25' Flexible 8" Diameter Duct Kit



Rigid Elbow Duct Kit

**UPGRADE KIT – Add leak detector and shutoff valve to protect from water damage**



Leak Sensor & Shutoff Valve Kit



## Recommended Specifications (for trade reference only)

Water heater(s) shall be Hybrid Electric Commercial model \_\_\_\_\_, manufactured by Ruud, having a total unit output wattage of 5.7kW, with a heat pump heating capacity of 1.2kW, and an FHR of \_\_\_\_\_ and tested to a minimum UEF of 3.75. Water heater(s) shall have a storage capacity of \_\_\_\_\_ gallons. Water heater(s) shall have the UL seal of certification and be factory equipped with an CSA/ ASME rated temperature and pressure relief valve. Water heater(s) shall be equipped with an integrated heat pump water heating system, electronically controlled with five modes of operation. Those modes being Energy Saver, Heat Pump, High Demand, Electric, and Vacation/Away. The heat pump shall have an ambient air operating temperature

range of 37°F to 145°F and meet Northern Climate Spec Tier 4. The control shall be integrated with built in WiFi, allowing for remote control and monitoring. The control shall support demand response, being Title 24 Compliant (JA13 Ready) and having a built-in CTA-2045 adapter. Water heater(s) shall require zero clearance from the rear and sides, with a 6" clearance from the top. Tank(s) interior shall be coated with a high temperature porcelain enamel and furnished with a magnesium anode rod rigidly supported. Water heater(s) shall meet or exceed the energy factor requirements of ASHRAE. Tanks shall have a working pressure rating of 150 psi, and shall be completely assembled. Water heater(s) shall be equipped with copper, resistered, "screw-in" type elements. Tank shall be insulated with 2" of rigid polyurethane foam insulation. Water heater(s) shall be covered by a three year limited warranty against tank leaks.

*In keeping with its policy of continuous progress and product improvement, Ruud reserves the right to make changes without notice.*